OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RR212456

Sult2b1 (NM_001039665) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sult2b1 (NM_001039665) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sult2b1
Synonyms:	ST2B1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR212456 representing NM_001039665 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGTCTCCATGGTCCAGGAATACCTGCTACTCGTCCCCCTCAATGAGGCTGGACCGGAGCTGCGCGCGCA ACACTGCTCGCTGGGGGCACTGGAAGGAGGGGAAGCCTCACGGTGGGCTCACTGGAGAAACTGAGGCAGG ATCATCGTGGAATGGAGGATCAGAAAGCCAGAAGCTGCAAGGTGAATACTTCAGGTACAAAGGCATTCCC TTTCCAGTCGGCATGTATACACCAGAGAGCCTCAGTCTGGCCGAGAACACTAGCAATGTGCGGGACGACG ACATCTTCATCGTCACCTACCCCAAATCAGGCACCAACTGGATGATTGAGATCATCTGCTTAATCCTGAA AGATGGGGACCCCTCGTGGATCCGTTCGGAGCCCATCTGGCAACGTGCACCCTGGTGCGAGACCACCATA AGTGCCTTCAGCCTTCCAGAGCGGCCCAGTCCCCGCCTCATGTGCTCCCACCTCCCTATTGAACTGTTCA CGAAGGCCGCCTTCAGCTCCAAGGCCAAGGTGATTTACTTGGGCCGGAACCCCCGGGACGTCGTGGTCTC CCTCTATTATTACTCTAAGATTGCTGTACAATTAAAGGACCCTGGTACACCTGAACAGTTCCTTCAGAAT TTCCTCAAAGGAGAAGTGCAGTTTGGCTCCTGGTTTGACCACATCAAGGGCTGGATCCGGATGCGGGGCC GAGAGAACTTCCTGTTTATCACCTACGAGGAGCTGCAGCAGGACCTGCGAGGCTCCGTGCAACTCATCTG TGAGTTCCTGGGCCGGCCACTGGGTGAAGAGGCCCTGAGCTCTGTGGTGGCCCATTCAGCTTTTGCTGCC ATGAAGGCCAATAACATGTCCAACTACACGCTGCTGCCGGCCAGCCTGCTAGACCACCGCCAGGGGGCGT TCCTGCGCAAAGGGATCAGTGGCGACTGGAAGAACCACTTCACTGTGGCGCAGAGTGAGACTTTTGACCA GGTCTACCGAGAGCAAATGCACGGGCTGCCGAGCTTCCCCTGGGACAGGTCCGCAGAGGACGGCAGCCCT GATGGCGAGACTGAGCCCAGCCCTAGCCCCAGCCCTGGCCTAGCCTCTGATGACCCCAACCCAGGATCCT CACAA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

View online »

Protein Sequence:

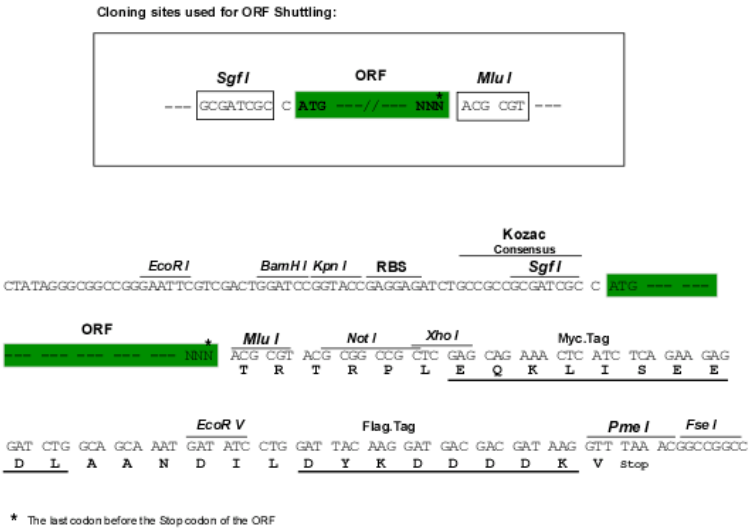
>RR212456 representing NM_001039665
Red=Cloning site Green=Tags(s)

MSPWSRNTCYSSPSMRLDRSCARNTARWGHWKEGKPHGGLTGETEAGSSWNGGSESQKLQGEYFRYKGIP
FPVGMYTPESLSLAENTSNVRDDDIFIVTYPKSGTNWMIEIICLILKDGDPSWIRSEPIWQRAPWCETTI
SAFSLPERPSPRLMCSHLPIELFTKAAFSSKAKVIYLGRNPRDVVVSLYYYSKIAVQLKDPGTPEQFLQN
FLKGEVQFGSWFDHIKGWIRMRGRENFLFITYEELQQDLRGSVQLICEFLGRPLGEEALSSVVAHSAFAA
MKANNMSNYTLLPASLLDHRQGAFLRKGISGDWKNHFTVAQSETFDQVYREQMHGLPSFPWDRSAEDGSP
DGETEPSPSPSPGLASDDPNPGSSQ

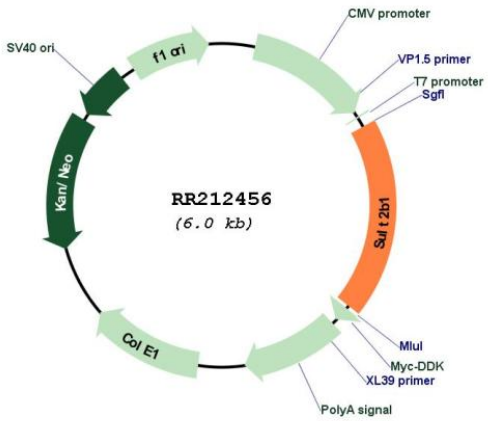
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001039665

ORF Size:	1125 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_001039665.1, NP_001034754.1
RefSeq Size:	1256 bp
RefSeq ORF:	1128 bp
Locus ID:	292915
UniProt ID:	Q29YR5
Cytogenetics:	1q22
MW:	42.2 kDa
Gene Summary:	Sulfotransferase that utilizes 3'-phospho-5'-adenylyl sulfate (PAPS) as sulfonate donor to catalyze the sulfate conjugation of many hormones, neurotransmitters, drugs and xenobiotic compounds. Sulfonation increases the water solubility of most compounds, and therefore their renal excretion, but it can also result in bioactivation to form active metabolites. Sulfates hydroxysteroids such as dehydroepiandrosterone. Isoform 1 is required for production of cholesterol sulfate essential for normal skin development whereas isoform 2 produces pregnenolone sulfate, an essential neurosteroid during development of the central nervous system. Plays a role in epidermal cholesterol metabolism and in the regulation of epidermal proliferation and differentiation (By similarity).[UniProtKB/Swiss-Prot Function]